					DEPARTMEN <sup>T</sup>		-				AMENI	FO DED REPOR	RM 3	
		AF	PLICATION F	OR PER	MIT TO DRILL					1. WELL NAME and N		36-16T-7	20	
2. TYPE OF WORK  DRILL NEW WELL REENTER P&A WELL DEEPEN WELL SEED DEEPEN W								3. FIELD OR WILDCAT THREE RIVERS						
4. TYPE OF WELL 5. U									5. UNIT or COMMUNI	TIZATION	AGREEM	ENT NAM	1E	
Oil Well Coalbed Methane Well: NO  6. NAME OF OPERATOR  ULTRA RESOURCES INC  7.								7. OPERATOR PHONI		F 0000				
8. ADDRES	SS OF OPERATO									9. OPERATOR E-MAI				
10. MINER	AL LEASE NUM		rness Way Sout		iglewood, CO, 801					12. SURFACE OWNER	<u> </u>	etroleum.c	om	
(FEDERAL	., INDIAN, OR S	TATE) ML50510		FE	DERAL NE	DIAN 🔵	STATE (I	) F	EE 💮	FEDERAL IN	IDIAN 🦲	STATE	F	EE 🔵
13. NAME	OF SURFACE	OWNER (if box 12 :	= 'fee')							14. SURFACE OWNE	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNE	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME		MUL	NTEND TO COMM TIPLE FORMATIO S (Submit C	NS	RODUCTION		NO (II)	19. SLANT VERTICAL DI	RECTION	AL 📵 H	IORIZONT	AL 💮
20. LOCA	TION OF WELL			FOOTAG	ES	QTF	R-QTR	S	SECTION	TOWNSHIP	R	ANGE	МЕ	RIDIAN
LOCATIO	N AT SURFACE		15	44 FSL 6	16 FWL	NV	wsw	7	36	7.0 S	20	0.0 E		S
Top of U	ppermost Prod	ucing Zone	13	00 FSL 66	60 FWL	SV	WSW		36	7.0 S	20	0.0 E		S
At Total	Depth		13	00 FSL 66	60 FWL	SV	wsw		36	7.0 S	20	0.0 E		S
21. COUN	TY	UINTAH		22. D	ISTANCE TO NEA	REST LE		eet)		23. NUMBER OF ACRES IN DRILLING UNIT				
					ISTANCE TO NEA		leted)	POOL		26. PROPOSED DEPT		TVD: 715	0	
27. ELEV <i>A</i>	TION - GROUN	D LEVEL		28. B	OND NUMBER					29. SOURCE OF DRIL			PPLICAB	LE
		4901				022046					49-2			
Ctring	Hole Size	Casing Size	Longth	Weight	Hole, Casing Grade & Th		ement Info Max Mud		on	Cement		Sacks	Yield	Waight
String	11	Casing Size 8.625	0 - 1000	24.0	J-55 LT		8.8		Prem	nium Lite High Stre	nath	80	2.97	Weight 11.5
- Juni		0.020	0 ,000	21.0	0 00 210		0.0		11011	Class G	ngui	115	1.16	15.8
Prod	7.875	5.5	0 - 7160	17.0	J-55 LT	&C	10.0	0		OTHER		225	3.54	11.0
										OTHER		450	1.35	14.0
					А	ATTACH	MENTS							
	VER	IFY THE FOLLO	WING ARE AT	TACHED	IN ACCORDAN	NCE WIT	H THE UTA	AH OIL	L AND GAS	CONSERVATION (	SENERA	L RULES		
<b>✓</b> w	ELL PLAT OR M	AP PREPARED BY I	LICENSED SURV	EYOR OR	ENGINEER		<b>⊯</b> com	PLETE	DRILLING PL	.AN				
AF.	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREE	MENT (IF F	FEE SURFACE)		FORM	1 5. IF C	OPERATOR IS	OTHER THAN THE L	EASE OW	NER		
<b>I</b> ✓ DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY O	R HORIZO	NTALLY DRILLED	p)	торо	GRAPI	HICAL MAP					
NAME Je	nna Anderson			TITLE P	Permitting Assista	nt			PHONE 30	3 645-9804				
SIGNATU	RE			DATE 0	7/09/2014				EMAIL jand	erson@ultrapetroleun	n.com			
	BER ASSIGNED 047545820	0000		APPRO	VAL				Bol	Refill				
									Permi	t Manager				

#### ULTRA RESOURCES, INC.

#### MASTER 8 - POINT DRILLING PROGRAM

Slim Hole Design 8 5/8" Surface & 5 ½" Production Casing Design

DATED: 07-09-14

Directional Wells located on Ultra leases in Three Rivers Project:

**Three Rivers 36-16T-720** 

SHL: Sec 36 (NWSW) T7S R20E

Uintah, Utah

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (CFR 43, Part 3160) and the approved Application for Permit to Drill. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations.

Three Rivers 36-16T-720 Page **2** of **5** 

# 1. Formation Tops

The estimated tops of important geologic markers are as follows:

Formation Top	Top (TVD)	Comments
Uinta	Surface	
BMSW	2,555' MD / 2,550' TVD	
Green River	3,082' MD / 3,075' TVD	
Mahogany	4,400' MD / 4,390' TVD	
Garden Gulch	5,060' MD / 5,050' TVD	Oil & Associated Gas
Lower Green River*	5,185' MD / 5,175' TVD	Oil & Associated Gas
Wasatch	6,960' MD / 6,950' TVD	Oil & Associated Gas
TD	7,160' MD / 7,150' TVD	

#### Asterisks (\*) denotes target pay intervals

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished to the BLM. Oil and gas shows will be adequately tested for commercial possibilities, reported and protected by casing and cement.

# 2. BOP Equipment

- A) The BOPE shall be closed whenever the well is unattended The Bureau of Land Management will be notified 24 hours prior to all BOPE pressure tests. The State of Utah, Division of Oil, Gas and Mining will be notified 24 hours prior to all BOPE pressure tests.
- **B**) The BOPE shall be closed whenever the well is unattended.
- C) As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, Part A:
  - 1) All BOPE connections subjected to well pressure will be flanged, welded, or clamped.
  - 2) Choke Manifold
  - 3) Tee blocks or targeted 'T's will be used and anchored to prevent slip and reduce vibration.
  - 4) Two adjustable chokes will be used in the choke manifold.
  - 5) All valves (except chokes) in kill line choke manifold and choke line will not restrict the flow
  - 6) Pressure gauges in the well control system will be designed for drilling fluid.

#### **D**) BOPE Testing:

- 1) BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, or after repairs.
- 2) All BOP tests will be performed with a test plug in place.
- 3) BOP will be tested to full stack working pressure and annular preventer to 50% stack working pressure.

INTERVAL	BOP EQUIPMENT
0 - 1,000' MD / 1, 000' TVD	11" Diverter with Rotating Head
1,000' MD / 1,000' TVD – 7,160' MD / 7,150' TVD	3,000# Ram Double BOP & Annular with
	Diverter & Rotating Head

NOTE: Drilling spool to accommodate choke and kill lines.

#### 3. Casing and Float Equipment Program

#### **CASING:**

Directional Well Hole Size OD		Depth MD/TVD	Wt.	Grade & Connection	Cond.	
Surface	11"	8 5/8"	1,000' MD / 1,000' TVD	24.0 ppf	J-55, LTC	New
Production	7 7/8"	5 ½"	7,160' MD / 7,150' TVD	17.0 ppf	J-55, LTC	New

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Three Rivers 36-16T-720 Page **3** of **5** 

#### CASING SPECIFICATIONS:

Directional Well	Casing OD	Casing ID / Drift ID	Collapse (psi)	Int. Yield (psi)	Ten. Yield (lb)	Jt. Strength (lb)
Surface	8 5/8"	8.097" / 7.972"	1,370	2,950	381,000	244,000
Production	5 ½"	4.492" / 4.767"	4,910	5,320'	273,000	229,000

FLOAT EQUIPMENT:

SURFACE (8 5/8") Float Shoe, 1 joint casing, float collar

Centralizers: 1 each 1<sup>st</sup> 4 Joints then every 4<sup>th</sup> joint to surface

PRODUCTION (5 ½") Float Shoe, 1 joint casing, float collar

Centralizers: 1 each 1st 4 Joints then every 3rd joint to 500' into surface casing

4. <u>Cementing Programs</u>

CONDUCTOR (13 3/8") Ready Mix – Cement to surface

SURFACE (8 5/8") Cement Top - Surface

Surface – 500' Lead: 80 sks, Premium Lightweight Cmt w/ additives, 11.5 ppg, 2,97 cf/sk 50%

excess

500' – 1,000' MD / 1,000' TVD± Tail: 115 sks Glass G Cement w/ additives, 15.8 ppg, 1.16 cf/sx, 50% excess

Note: The above volumes are based on a gauge-hole + 50% excess.

**PRODUCTION** (5 ½") Cement Top – 500"

500' - 4,000' TVD  $\pm$  Lead: 225 sks – Econocem Cement w/ 0.25 lbm Poly-E-Flake, 1%

Granulite TR <sup>1</sup>/<sub>4</sub>, 5 lbm Kol-Seal; 11.0 ppg; 3.54 cf/sx; 15% excess

4,000' - 7,160' MD / 7,150' TVD Tail: 450 sks, Expandacem Cement w/ 0.25 lbm Poly-E-Flake, 1 lbm

Granulite TR ¼, 2 lbm Kol-Seal; 14.0 pp; 1.349 cf/sk; 15% excess

Note: Lead Cement will be brought to 4,000' which will give a minimum of 500' above Lower Green River.

- A) For Surface casing, if cement falls or does not circulate to surface, cement will be topped off.
- **B**) Cement will not be placed down annulus with a 1" pipe unless BLM is contacted.
- C) The Bureau of Land Management will be notified 24 hours prior to running casing and cementing.
- **D**) As per 43 CFR 3160, Onshore Oil and Gas Order No.2, Drilling Operations, Part B:
  - 1) All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe (minimum of 8 hours) prior to drilling out.
  - 2) Prior to drilling out cement, casing will be pressure tested to 1500 psi. Pressure decline must not be greater than 10% (150 psi) in 30 minutes.
  - 3) Progress reports, Form 3160-5 "Sundry Notices and Reports on Wells", shall be filed with the Field Manager within 30 days after the work in completed.
  - 4) Setting of each string of casing, size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
  - Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.

RECEIVED: July 09, 2014

Three Rivers 36-16T-720

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6) A pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed after drilling 5-10 feet of new hole.

#### 5. Mud Program

The proposed circulating mediums to be employed in drilling are as follows:

Interval	Mud Type	Viscosity	Fluid Loss	pН	Mud Wt. (ppg)
0 – 1,000' MD / 1,000' TVD	Water/Spud Mud	32	No Control (NC)	7.0 -8.2	<8.8
1,000' MD / 1,000' TVD - 7,160' MD / 7,150' TVD	DAP System	40 - 60	10 - 18	7.0-8.2	<10.0

- **A)** For Surface Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations. A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- **B**) The mud monitoring equipment on location will be installed by top of Green River and will be able to monitor at a minimum the pit volume totalizer (PVT), stroke counter, and flow sensor
- C) Flare line discharge will be located no less than 100 feet from the wellhead using straight or targeted 'T' and anchors.

#### 6. Evaluation Program - Testing, Logging, and Coring

- A) Cores: None anticipated.
- **B**) Testing: None anticipated.
- C) Directional Drilling: Directional tools will be used to locate the bottom hole per the attached directional plan +/-.
- **D)** Open Hole Logs: TD to surface casing: resistivity, neutron density, gamma ray and caliper.
- **E**) Mud Logs: None anticipated.
- **F)** Formation to TD; record and monitor gas shows and record drill times (normal mud logging duties).

#### 7. Anticipated Pressures and H.S.

- **A)** The expected bottom hole pressure is 3,500 3,650 psig. Normal pressures are anticipated from surface to approximately TD. These pressures will be controlled by a blowout preventer stack, annular BOP, choke manifold, mud/gas separator, surface equipment and drilling mud. A supply of barite to weight the mud to a balancing specific gravity, if necessary, will be on location.
- **B**) Maximum expected surface pressure will be based on the frac gradient of the casing shoe. The design of the casing assumes that the MASP will be the fracture pressure at the shoe less a column of gas.
- C) No hydrogen sulfide gas is anticipated, however if H<sub>2</sub>S is encountered, the guidelines in Onshore Oil and Gas Order No. 6 will be complied with.

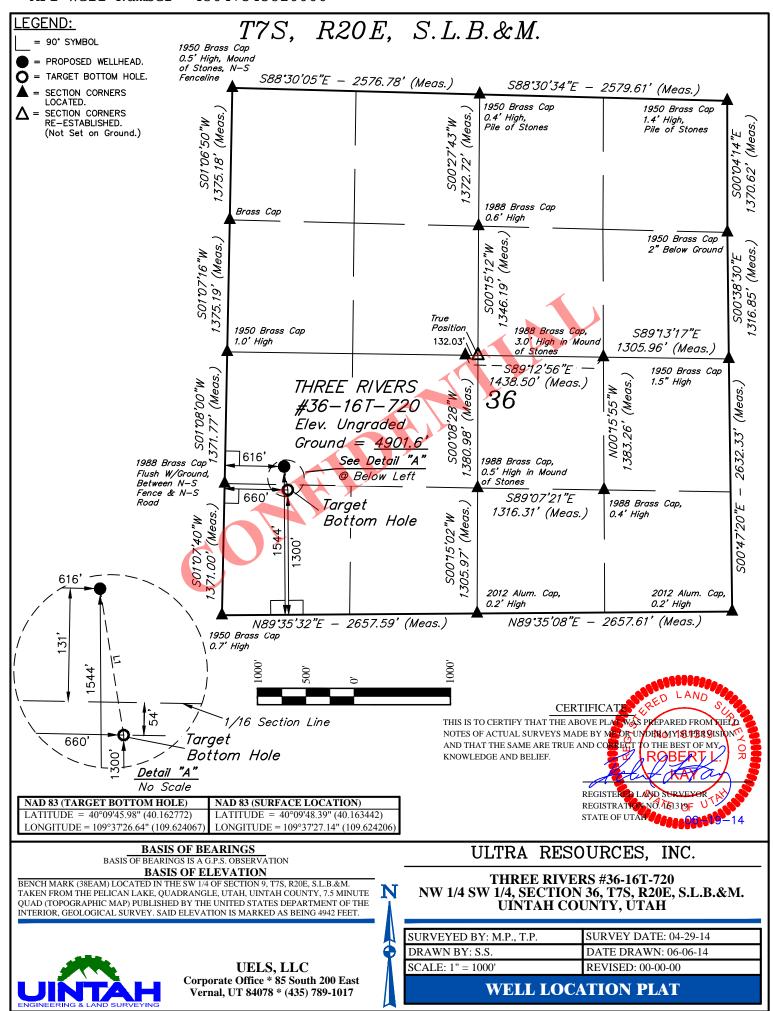
#### **8.** Other Information and Notification Requirements

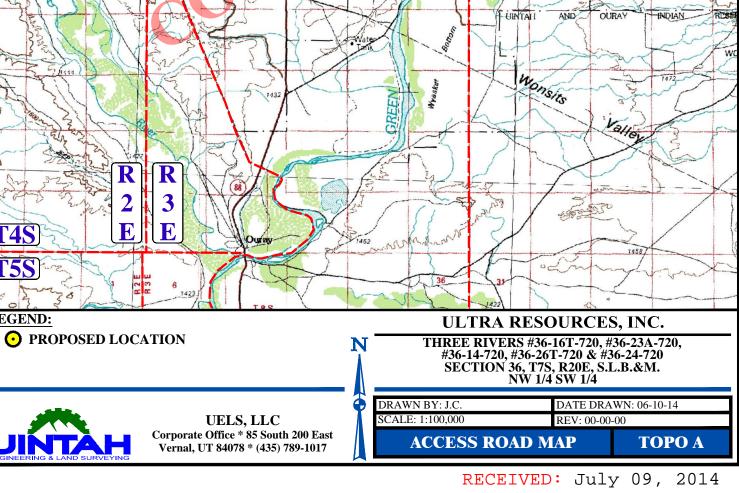
**A)** There shall be no deviation from the proposed drilling and/or workover program as approved. Any changes in operation must have prior approval from the *Utah Division of Oil, Gas and Mining*, and the BLM Vernal (when drilling on Federal leases).

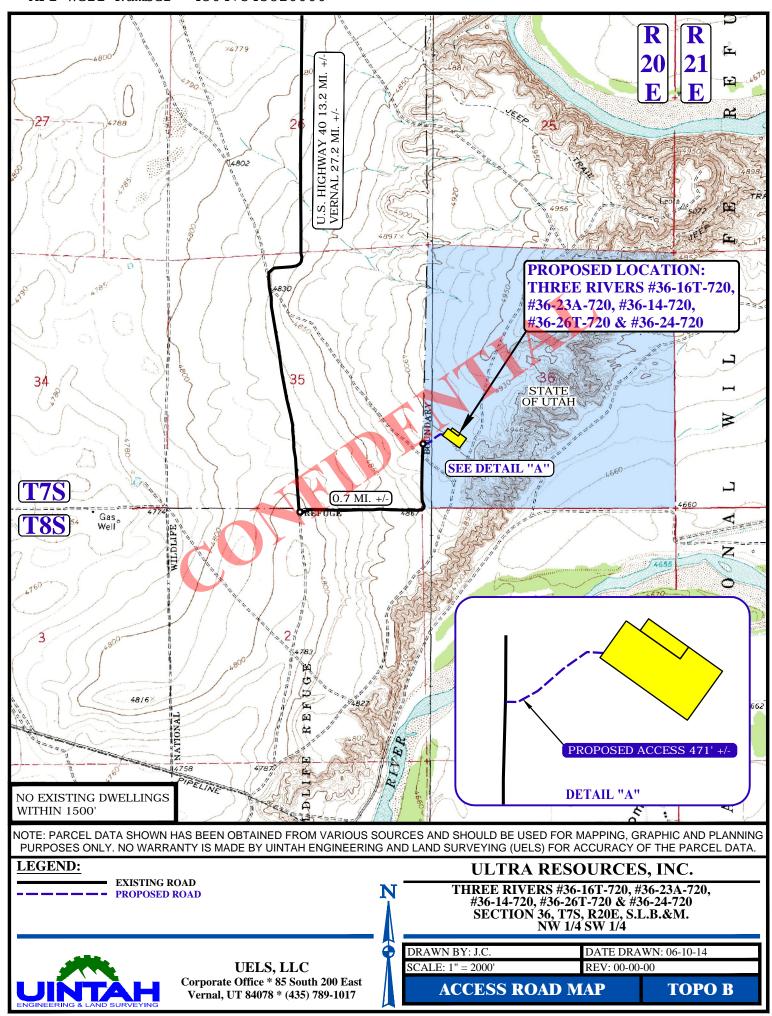
Three Rivers 36-16T-720 Page **5** of **5** 

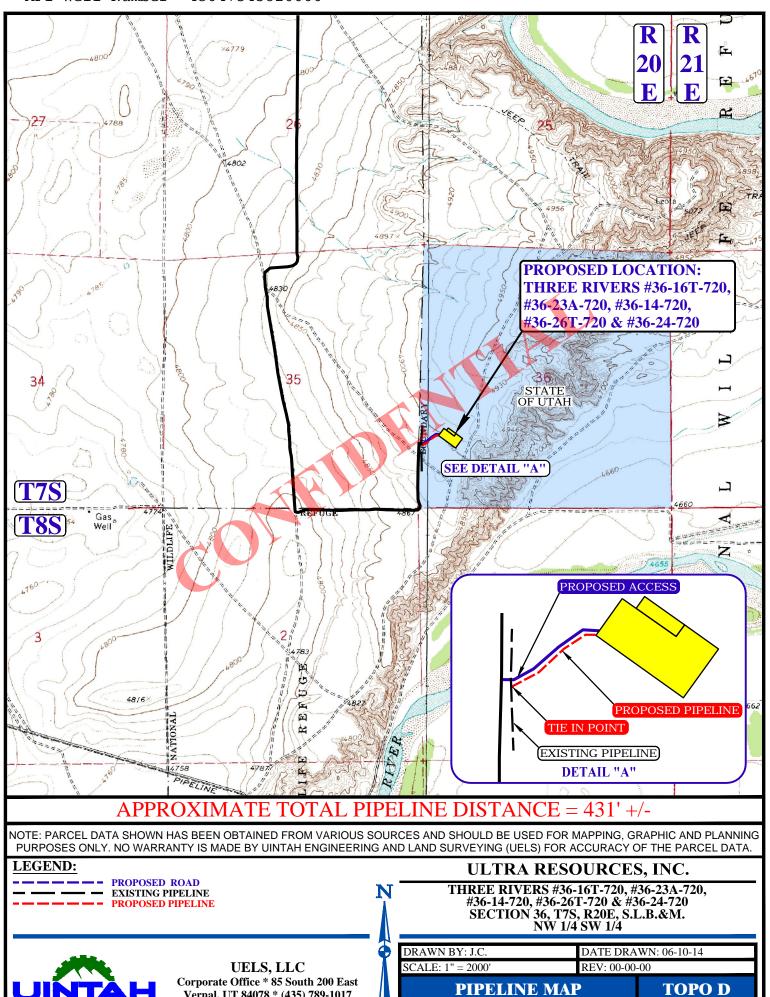
1) Anticipated starting date will be upon approval. It is anticipated that completion operations will begin within 15 days after the well has been drilled.

- 2) It is anticipated that the drilling and completion of this well will take approximately 90 days.
- B) Notification Requirements for *Utah Division of Oil*, *Gas and Mining*:
  - Within 24 hrs. of spud (Carol Daniels at 801/538-5284)
  - 24 hrs. prior to testing BOP equipment (Dan Jarvis 801/538-5338 or 231-8956)
  - 24 hrs. prior to cementing or testing casing (Dan Jarvis)
  - Within 24 hrs. of making any emergency changes to APD (Dustin Doucet 801/538-5281 or 733-0983)
- C) Notification Requirements BLM Vernal when drilling on Federal leases as follows: (Cade T Taylor @ cctaylor@blm.gov and Blm\_ut\_vn\_opreport@blm.gov:
  - Within 24 hrs. of spud (Carol Daniels at 801/538-5284)
  - 24 hrs. prior to testing BOP equipment (Dan Jarvis 801/538-5338 or 231-8956)
  - 24 hrs. prior to cementing or testing casing (Dan Jarvis)
  - Within 24 hrs. of making any emergency changes to APD (Dustin Doucet 801/538-5281 or 733-0983)
- **D)** Any changes in the program must be approved by the *Utah Division of Oil, Gas and Mining* and or the BLM Vernal Office. "Sundry Notices and Reports on Wells" (form 3160-5) must be filed for all changes of plans. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
  - 1) Should the well be successfully completed for production, the BLM Pinedale Field Office must be notified when it is placed in a producing status. The notification shall provide, as a minimum, the following information items:
    - . Operator name, address, and telephone number.
    - . Well name and number.
    - Well location (1/4 1/4, Section, Township, Range and P.M.)
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - . The Federal or Indian lease prefix and number on which the well is located. As appropriate, the unit agreement name, number and participating area name. As appropriate, the communitization agreement number.

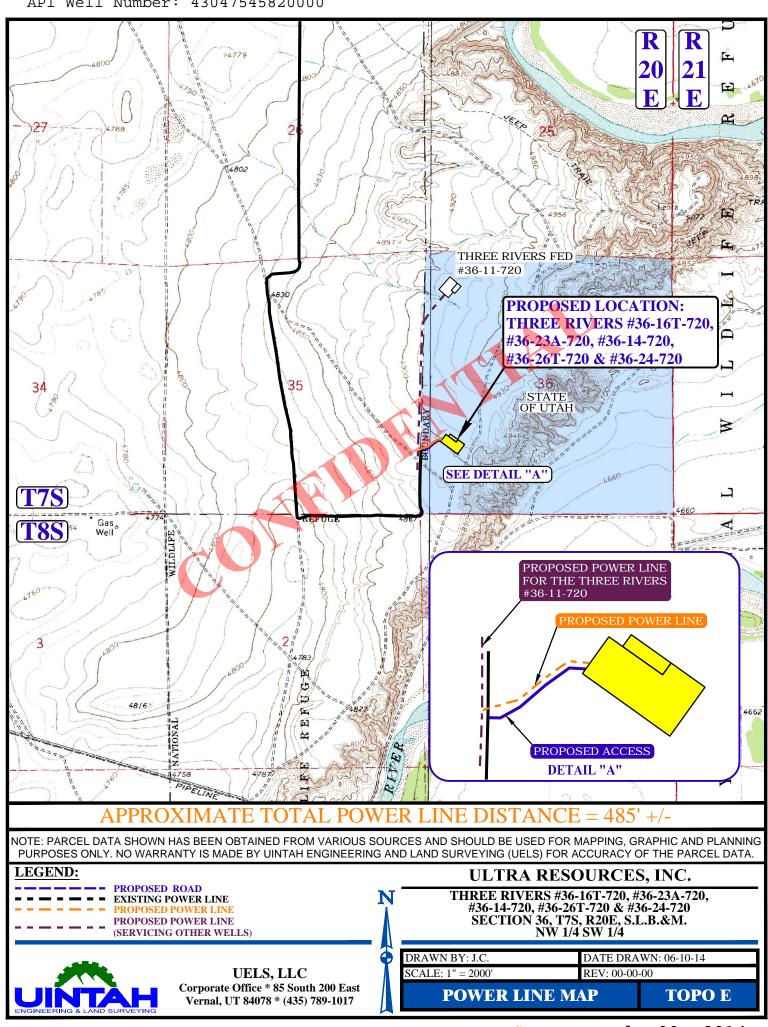


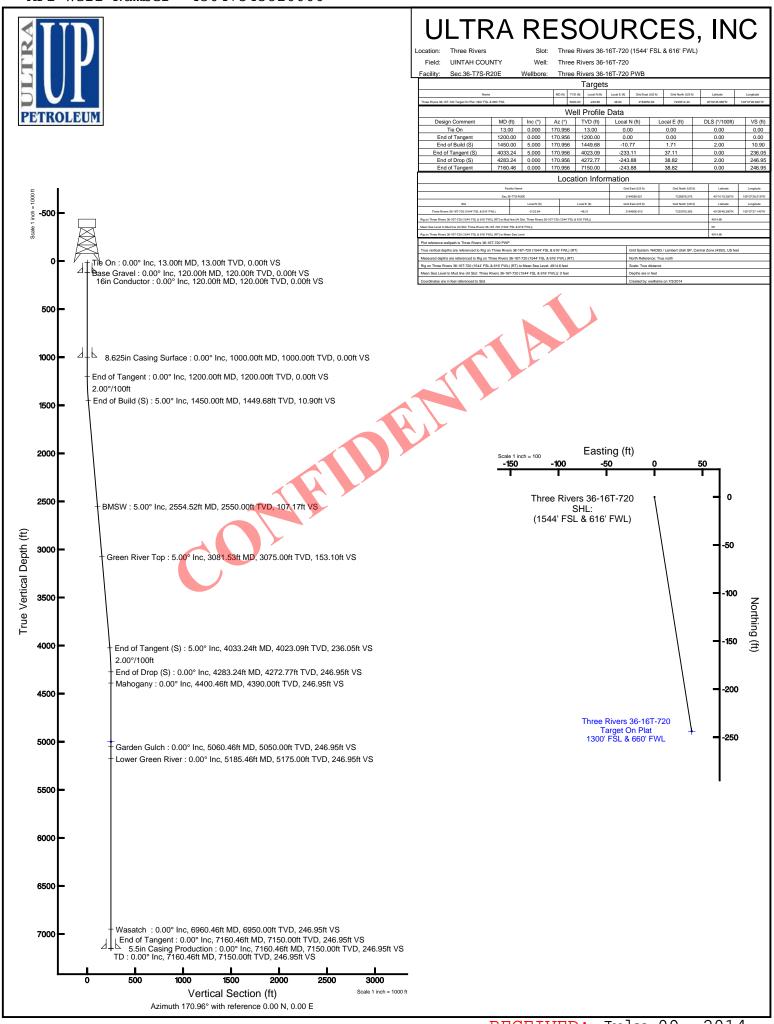






Vernal, UT 84078 \* (435) 789-1017





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API Well Number: 43047545820000



# **Planned Wellpath Report**

Three Rivers 36-16T-720 PWP





REFERENC	REFERENCE WELLPATH IDENTIFICATION						
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-16T-720 (1544' FSL & 616' FWL)				
Area	Three Rivers	Well	Three Rivers 36-16T-720				
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-16T-720 PWB				
Facility	Sec.36-T7S-R20E						

REPORT SETUP INFORMATION								
Projection System	NAD83 / Lambert Utah SP, Central Zone (4302), US feet	Software System	WellArchitect® 3.0.0					
North Reference	True	User	Ewilliams					
Scale	0.999915	Report Generated	7/3/2014 at 1:08:16 PM					
Convergence at slot	n/a	Database/Source file	WellArchitectDB/Three_Rivers_36-16T-720_PWB.xml					

WELLPATH LOCATION							
	Local coor	dinates	Grid co	oordinates	Geographic coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	-3122.84	-48.21	2164606.91	7233755.38	40°09'48.390"N	109°37'27.140"W	
Facility Reference Pt			2164589.62	7236878.28	40°10'19.250"N	109°37'26.519"W	
Field Reference Pt			2156630.96	7236613.42	40°10'18.270"N	109°39'09.100"W	
/							

WELLPATH DATU		
Calculation method	Minimum curvature	Rig on Three Rivers 36-16T-720 (1544' FSL & 616' FWL) (RT) to Facility Vertical Datum
Horizontal Reference Pt	Slot	Rig on Three Rivers 36-16T-720 (1544' FSL & 616' FWL) (RT) to Mean Sea Level
Vertical Reference Pt	Rig on Three Rivers 36-16T-720 (1544' FSL & 616' FWL) (RT)	Rig on Three Rivers 36-16T-720 (1544' FSL & 616' FWL) (RT) to Mud Line at Slot (Three Rivers 36-16T-720 (1544' FSL & 616' FWL))
MD Reference Pt	Rig on Three Rivers 36-16T-720 (1544' FSL & 616' FWL) (RT)	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth



# Planned Wellpath Report Three Rivers 36-16T-720 PWP Page 2 of 5



REFERENC	REFERENCE WELLPATH IDENTIFICATION						
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-16T-720 (1544' FSL & 616' FWL)				
Area	Three Rivers	Well	Three Rivers 36-16T-720				
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-16T-720 PWB				
Facility	Sec.36-T7S-R20E						

LLPATH D	ATA (85 stations)	) † = interpo	lated/extrapol	ated station						
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	170.956	0.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
13.00	0.000	170.956	13.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
113.00†	0.000	170.956	113.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
120.00†	0.000	170.956	120.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	Base Gravel
213.00†	0.000	170.956	213.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
313.00†	0.000	170.956	313.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
413.00†	0.000	170.956	413.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
513.00†	0.000	170.956	513.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
613.00†	0.000	170.956	613.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
713.00†	0.000	170.956	713.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
813.00†	0.000	170.956	813.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
913.00†	0.000	170.956	913.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
1013.00†	0.000	170.956	1013.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
1113.00†	0.000	170.956	1113.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
1200.00	0.000	170.956	1200.00	0.00	0.00	0.00	40°09'48.390"N	109°37'27.140"W	0.00	
1213.00†	0.260	170.956	1213.00	0.03	-0.03	0.00	40°09'48.390"N	109°37'27.140"W	2.00	
1313.00†	2.260	170.956	1312.97	2.23	-2.20	0.35	40°09'48.368"N	109°37'27.135"W	2.00	
1413.00†	4.260	170.956	1412.80	7.91	-7.82	1.24	40°09'48.313"N	109°37'27.124"W	2.00	
1450.00	5.000	170.956	1449.68	10.90	-10.77	1.71	40°09'48.284"N	109°37'27.118"W	2.00	
1513.00†	5.000	170.956	1512.44	16.39	-16.19	2.58	40°09'48.230"N	109°37'27.107"W	0.00	
1613.00†	5.000	170.956	1612.06	25.11	-24.80	3.95	40°09'48.145"N	109°37'27.089"W	0.00	
1713.00†	5.000	170.956	1711.68	33.82	-33.40	5.32	40°09'48.060"N	109°37'27.072"W	0.00	
1813.00†	5.000	170.956	1811.30	42.54	-42.01	6.69	40°09'47.975"N	109°37'27.054"W	0.00	
1913.00†	5.000	170.956	1910.92	51.25	-50.62	8.06	40°09'47.890"N	109°37'27.036"W	0.00	
2013.00†	5.000	170.956	2010.54	59.97	-59.22	9.43	40°09'47.805"N	109°37'27.019"W	0.00	
2113.00†	5.000	170.956	2110.16	68.69	-67.83	10.80	40°09'47.720"N	109°37'27.001"W	0.00	
2213.00†	5.000	170.956	2209.78	77.40	-76.44	12.17	40°09'47.635"N	109°37'26.983"W	0.00	
2313.00†	5.000	170.956	2309.40	86.12	-85.05	13.54	40°09'47.550"N	109°37'26.966"W	0.00	
2413.00†	5.000	170.956	2409.02	94.83	-93.65	14.91	40°09'47.465"N	109°37'26.948"W	0.00	
2513.00†	5.000	170.956	2508.64	103.55	-102.26	16.28	40°09'47.379"N	109°37'26.930"W	0.00	
2554.52†	5.000	170.956	2550.00	107.17	-105.83	16.85	40°09'47.344"N	109°37'26.923"W	0.00	BMSW
2613.00†	5.000	170.956	2608.26	112.26	-110.87	17.65	40°09'47.294"N	109°37'26.913"W	0.00	
2713.00†	5.000	170.956	2707.88	120.98	-119.48	19.02	40°09'47.209"N	109°37'26.895"W	0.00	
2813.00†	5.000	170.956	2807.50	129.69	-128,08	20.39	40°09'47.124"N	109°37'26.877"W	0.00	
2913.00†	5.000	170.956	2907.12	138.41	-136.69	21.76	40°09'47.039"N	109°37'26.860"W	0.00	
3013.00†	5.000	170.956	3006.74	147.13	-145.30	23.13	40°09'46.954"N	109°37'26.842"W	0.00	
3081.53†	5.000	170.956	3075.00	153.10	-151.19	24.07	40°09'46.896"N	109°37'26.830"W	0.00	Green River Top
3113.00†	5.000	170.956	3106.35	155.84	-153.90	24.50	40°09'46.869"N	109°37'26.824"W	0.00	
3213.00†	5.000	170.956	3205.97	164.56	-162.51	25.87	40°09'46.784"N	109°37'26.807"W	0.00	
3313.00†	5.000	170.956	3305.59	173.27	-171.12	27.24	40°09'46.699"N	109°37'26.789"W	0.00	
3413.00†	5.000	170.956	3405.21	181.99	-179.73	28.61	40°09'46.614"N	109°37'26.772"W	0.00	
3513.00†	5.000	170.956	3504.83	190.70	-188.33	29.98	40°09'46.529"N	109°37'26.754"W	0.00	
3613.00†	5.000	170.956	3604.45	199.42	-196.94	31.35	40°09'46.444"N	109°37'26.736"W	0.00	
3713.00†	5.000	170.956	3704.07	208.13	-205.55	32.72	40°09'46.359"N	109°37'26.719"W	0.00	
3813.00†	5.000	170.956	3803.69	216.85	-214.15	34.09	40°09'46.274"N	109°37'26.701"W	0.00	



# Planned Wellpath Report Three Rivers 36-16T-720 PWP Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION				
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-16T-720 (1544' FSL & 616' FWL)	
Area	Three Rivers	Well	Three Rivers 36-16T-720	
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-16T-720 PWB	
Facility	Sec.36-T7S-R20E			

VELLPATH DATA (85 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination	Azimuth [°]	TVD [ft]	Vert Sect	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3913.00†	5.000	170.956	3903.31	225.57	-222.76	35.46	40°09'46.189"N	109°37'26.683"W	0.00	ĺ
4013.00†	5.000	170.956	4002.93	234.28	-231.37	36.83	40°09'46.104"N	109°37'26.666"W	0.00	
4033.24	5.000	170.956	4023.09	236.05	-233.11	37.11	40°09'46.086"N	109°37'26.662"W	0.00	
4113.00†	3.405	170.956	4102.64	241.89	-238.88	38.02	40°09'46.029"N	109°37'26.650"W	2.00	
4213.00†	1.405	170.956	4202.54	246.09	-243.03	38.68	40°09'45.988"N	109°37'26.642"W	2.00	
4283.24	0.000	170.956	4272.77 <sup>1</sup>	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	2.00	1
4313.00†	0.000	170.956	4302.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
4400.46†	0.000	170.956	4390.00	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	Mahogany
4413.00†	0.000	170.956	4402.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
4513.00†	0.000	170.956	4502.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
4613.00†	0.000	170.956	4602.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
4713.00†	0.000	170.956	4702.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
4813.00†	0.000	170.956	4802.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
4913.00†	0.000	170.956	4902.54	246.95	-243.88	38.82	40°09'45.980"N	/ 109°37'26.640"W	0.00	
5013.00†	0.000	170.956	5002.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5060.46†	0.000	170.956	5050.00	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	Garden Gulch
5113.00†	0.000	170.956	5102.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5185.46†	0.000	170.956	5175.00	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	Lower Green River
5213.00†	0.000	170.956	5202.54	246.95	-243.88	38.82	40°09'45.9 <mark>80"</mark> N	109°37'26.640"W	0.00	
5313.00†	0.000	170.956	5302.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5413.00†	0.000	170.956	5402.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5513.00†	0.000	170.956	5502.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5613.00†	0.000	170.956	5602.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5713.00†	0.000	170.956	5702.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
5813.00†	0.000	170.956	5802.54	246.95	-243.88	38.82	40°09'45,980"N	109°37'26.640"W	0.00	
5913.00†	0.000	170.956	5902.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6013.00†	0.000	170.956	6002.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6113.00†	0.000	170.956	6102.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6213.00†	0.000	170.956	6202.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6313.00†	0.000	170.956	6302.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6413.00†	0.000	170.956	6402.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6513.00†	0.000	170.956	6502.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6613.00†	0.000	170.956	6602.54	246.95	-243,88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6713.00†	0.000	170.956	6702.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6813.00†	0.000	170.956	6802.54	246.95	-243,88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6913.00†	0.000	170.956	6902.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
6960.46†	0.000	170.956	6950.00	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	Wasatch
7013.00†	0.000	170.956	7002.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
7113.00†	0.000	170.956	7102.54	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	
7160.46	0.000	170.956	7150.00	246.95	-243.88	38.82	40°09'45.980"N	109°37'26.640"W	0.00	TD

Page 4 of 5

API Well Number: 43047545820000



# **Planned Wellpath Report**

Three Rivers 36-16T-720 PWP Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION				
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-16T-720 (1544' FSL & 616' FWL)	
Area	Three Rivers	Well	Three Rivers 36-16T-720	
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-16T-720 PWB	
Facility	Sec.36-T7S-R20E	[		

HOLE & CASING SECTIONS - Ref Wellbore: Three Rivers 36-16T-720 PWB Ref Wellpath: Three Rivers 36-16T-720 PWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
16in Conductor	13.00	120.00	107.00	13.00	120.00	0.00	0.00	0.00	0.00
12.25in Open Hole	120.00	1000.00	880.00	120.00	1000.00	0.00	0.00	0.00	0.00
8.625in Casing Surface	13.00	1000.00	987.00	13.00	1000.00	0.00	0.00	0.00	0.00
7.875in Open Hole	1000.00	7160.46	6160.46	1000.00	7150.00	0.00	0.00	-243.88	38.82
5.5in Casing Production	13.00	7160.46	7147.46	13.00	7150.00	0.00	0.00	-243.88	38.82

TARGETS									
lame	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
) Three Rivers 36-16T-720 Target On Plat 1300' SL & 660' FWL		5000.00	-243.88		2164650.83	7233512.40	40°09'45.980"N	109°37'26.640"W	point
					. ~				
					EI				
			E.						



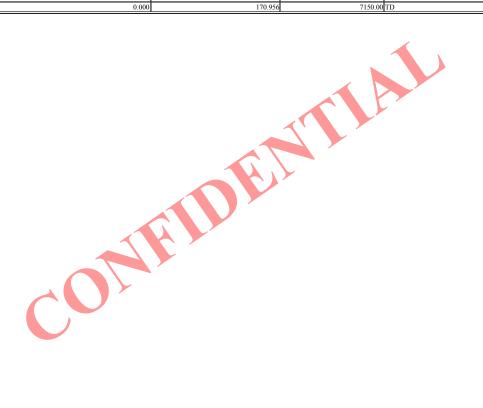
# **Planned Wellpath Report**

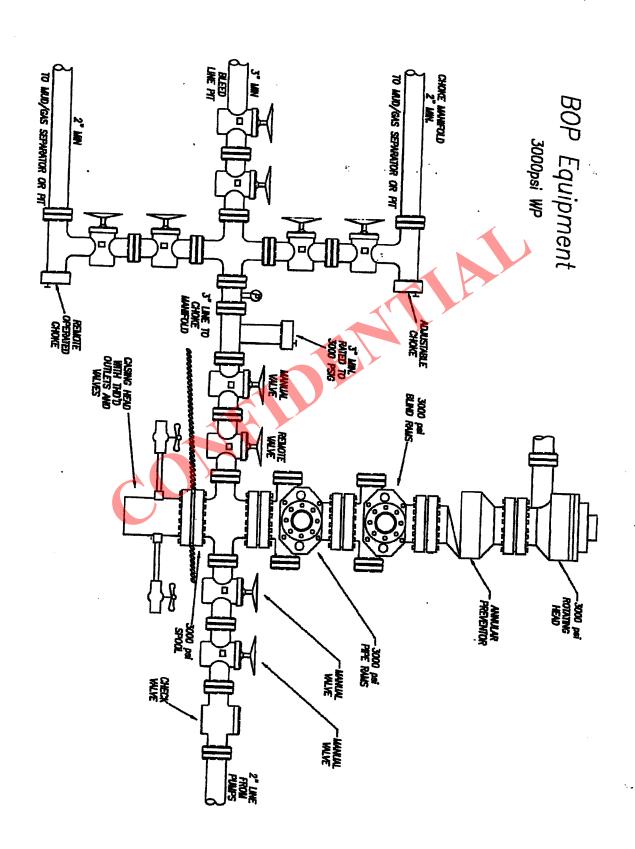
Three Rivers 36-16T-720 PWP Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION				
Operator	ULTRA RESOURCES, INC	Slot	Three Rivers 36-16T-720 (1544' FSL & 616' FWL)	
Area	Three Rivers	Well	Three Rivers 36-16T-720	
Field	UINTAH COUNTY	Wellbore	Three Rivers 36-16T-720 PWB	
Facility	Sec.36-T7S-R20E			

WELLPATH COMMENTS	3			
MD	Inclination	Azimuth	TVD	Comment
[ft]	[°]	[°]	[ft]	
120.00	0.000	170.956	120.00	Base Gravel
2554.52	5.000	170.956	2550.00	BMSW
3081.53	5.000	170.956	3075.00	Green River Top
4400.46	0.000	170.956	4390.00	Mahogany
5060.46	0.000	170.956	5050.00	Garden Gulch
5185.46	0.000	170.956	5175.00	Lower Green River
6960.46	0.000	170.956	6950.00	Wasatch
7160.46	0.000	170.956	7150.00	TD







# Ultra Resources, Inc.

July 9, 2014

Mr. Dustin Doucet Utah Division of Oil, Gas & Mining 1594 West North Temple Salt Lake City, Utah 84116

RE: Request for Exception to Spacing

**Three Rivers 36-16T-720** 

Surface Location: 1544' FSL & 616' FWL, NWSW, Sec. 36, T7S, R20E Target Location: 1300' FSL & 660' FWL, SWSW, Sec. 36, T7S, R20E

SLB&M, Uintah County, Utah

Dear Mr. Doucet:

Ultra Resources, Inc. ("Ultra") respectfully submits this request for exception to spacing (**Docket No. 2013-030 / Cause No. 270-02**) based on geology since the well is located less than 100 feet to the drilling unit boundary.

The adjacent drilling unit boundary is covered by the same lease and has the identical production interest owners in it.

Ultra owns 100% of the leasehold within 460 feet of the surface and target location as well as all points along the intended well bore path.

Thank you very much for your timely consideration of this application. Please feel free to contact me at 303-645-9810 should you have any questions or need additional information.

Sincerely,

Debbie Ghani Sr. Permitting Specialist

/dg

RECEIVED: July 09, 2014

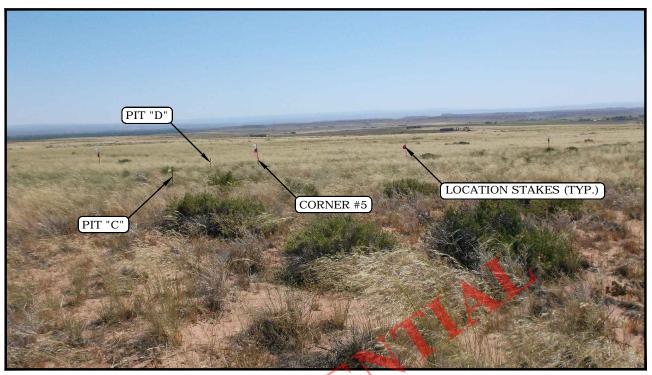


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: NORTHEASTERLY** 

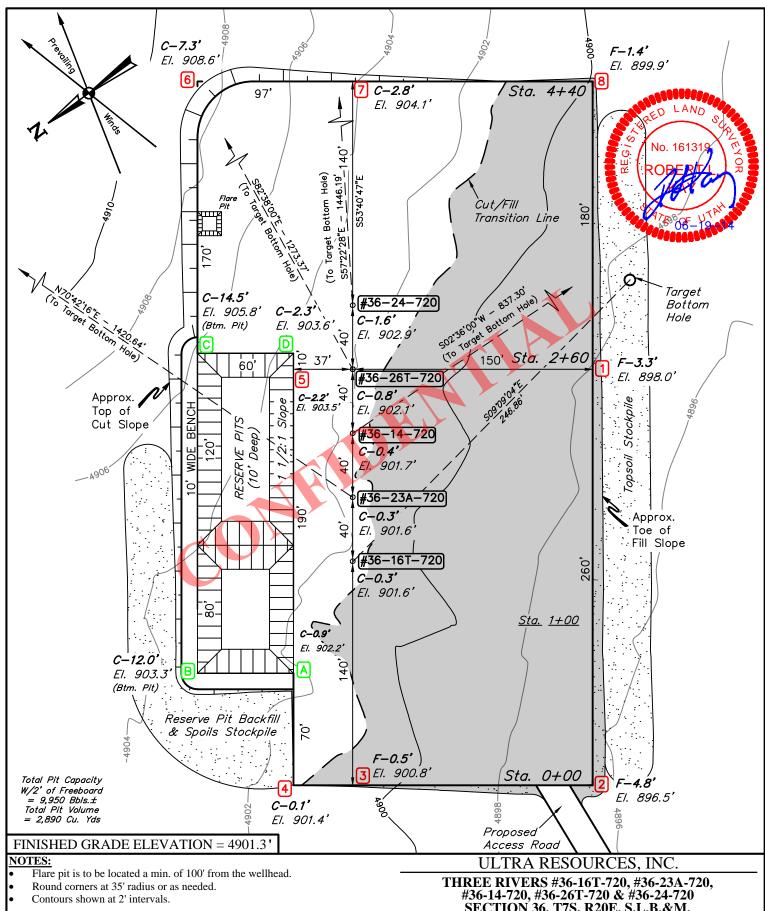
# **ULTRA RESOURCES, INC.**

THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: J.C.	DATE DRA	WN: 06-10-14
TAKEN BY: M.P.	REV: 00-00-	-00
LOCATION PHOTOS		РНОТО

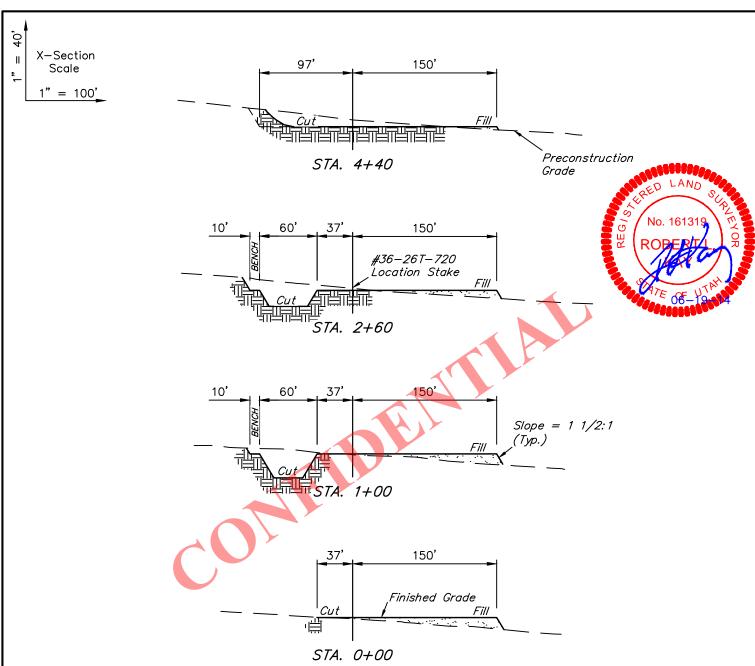


#36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.S. DATE DRAWN: 06-06-14 SCALE: 1" = 60 REVISED: 00-00-00 **LOCATION LAYOUT** FIGURE #1



VORK QUANTITIES
2,110 Cu. Yds.
6,840 Cu. Yds.
8,950 Cu. Yds.
5,390 Cu. Yds.
3,560 Cu. Yds.
3,560 Cu. Yds.
0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS				
	DISTANCE	ACRES		
WELL SITE DISTURBANCE	NA	±3.117		
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±470.65'	±0.324		
30' WIDE PIPELINE R-O-W DISTURBANCE	±431.06'	±0.297		
TOTAL SURFACE USE AREA	±901.71'	±3.738		

#### **NOTES:**

- Fill quantity includes 5% for compaction.
- Calculations based on 6" of topsoil stripping.
- Topsoil should not be stripped below finished grade on substructure area.

## ULTRA RESOURCES, INC.

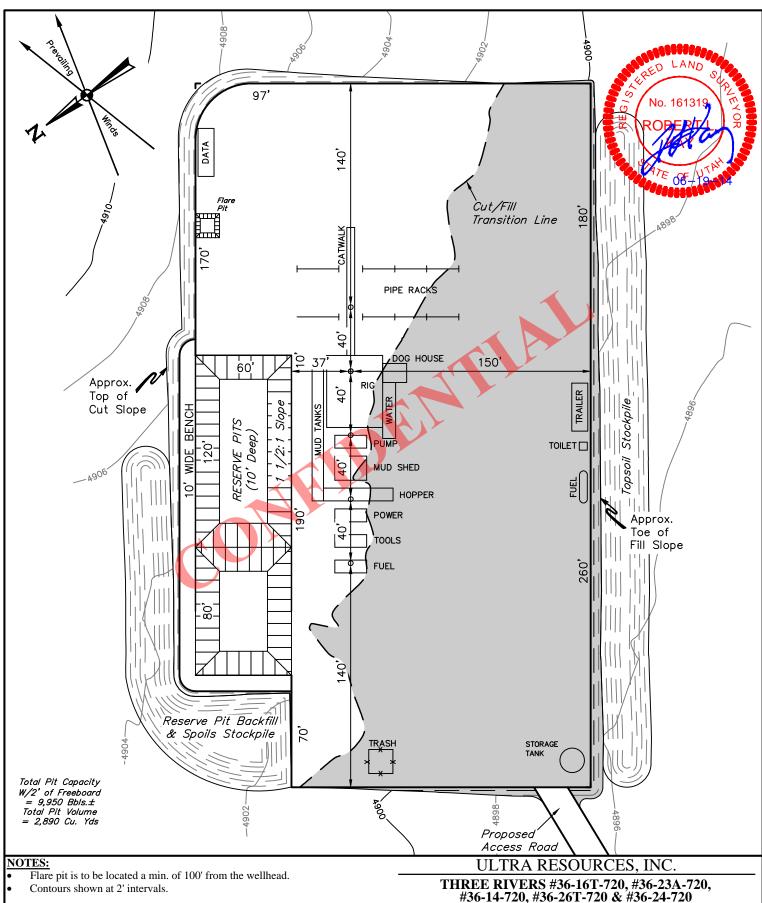
THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

TYPICAL CROSS SEC	CTIONS FIGURE #2
SCALE: AS SHOWN	REVISED: 00-00-00
DRAWN BY: S.S.	DATE DRAWN: 06-06-14

RECEIVED: July 09, 2014



THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



**UELS, LLC** Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: S.S. DATE DRAWN: 06-06-14 REVISED: 00-00-00 TYPICAL RIG LAYOUT FIGURE #3

PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 9.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 471 TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 28.0 MILES.

# **ULTRA RESOURCES, INC.**

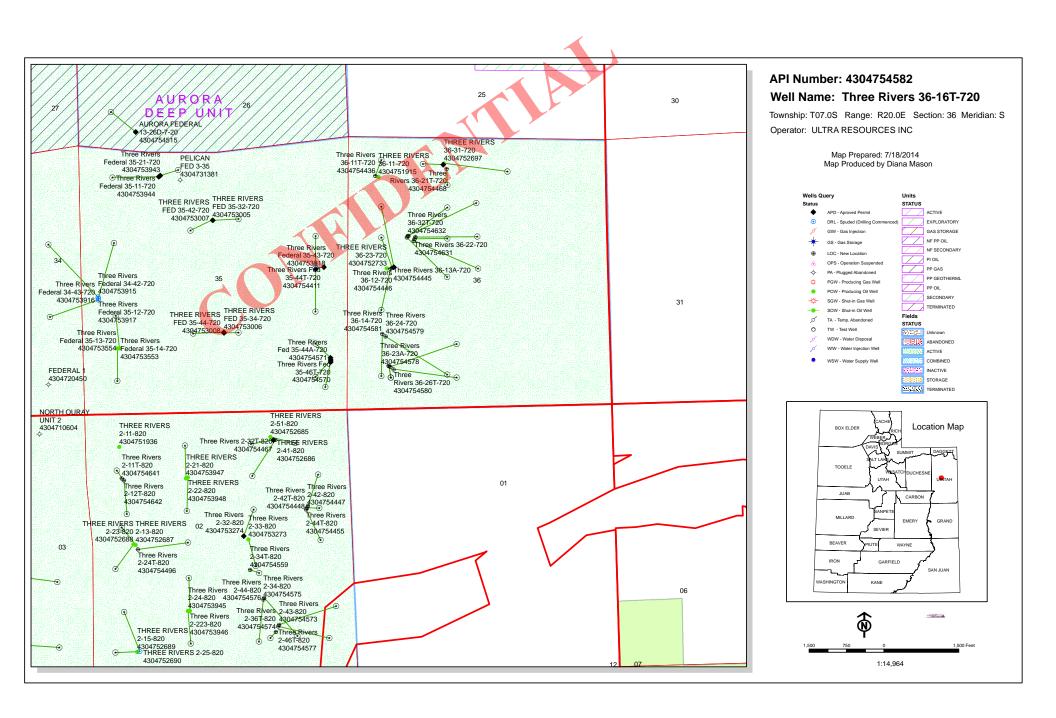
THREE RIVERS #36-16T-720, #36-23A-720, #36-14-720, #36-26T-720 & #36-24-720 SECTION 36, T7S, R20E, S.L.B.&M. NW 1/4 SW 1/4



UELS, LLC Corporate Office \* 85 South 200 East Vernal, UT 84078 \* (435) 789-1017

DRAWN BY: J.C.	DATE DRAWN: 06-10-14		
	REV: 00-00-00		
ROAD DESCRIPTION			

RECEIVED: July 09, 2014





Diana Mason <dianawhitney@utah.gov>

# **Ultra Well Approvals**

#### Jeff Conley < jconley@utah.gov>

Wed, Sep 3, 2014 at 2:45 PM

To: Diana Mason <dianawhitney@utah.gov>, Bradley Hill <br/>bradhill@utah.gov>

Cc: starpoint <starpoint@etv.net>, kbott@ultrapetroleum.com, janderson@ultrapetroleum.com, Jim Davis <jimdavis1@utah.gov>

Hello,

9/3/2014

The following wells have been approved by SITLA including arch and paleo with the stipulation that a paleo monitor be on site if bedrock is impacted:

(4304754573) Three Rivers 2-43-820 (4304754574) Three Rivers 2-36T-820 (4304754575) Three Rivers 2-34-820 (4304754576) Three Rivers 2-44-820 (4304754577) Three Rivers 2-46T-820 (4304754578) Three Rivers 36-23A-720 (4304754579) Three Rivers 36-24-720 (4304754580) Three Rivers 36-26T-720 (4304754581) Three Rivers 36-14-720 (4304754582) Three Rivers 36-16T-720 (4304754627) Three Rivers 36-32-720 (4304754628) Three Rivers 36-22T-720 (4304754629) Three Rivers 36-34T-720 (4304754630) Three Rivers 36-24T-720 (4304754631) Three Rivers 36-22-720 (4304754632) Three Rivers 36-32T-720

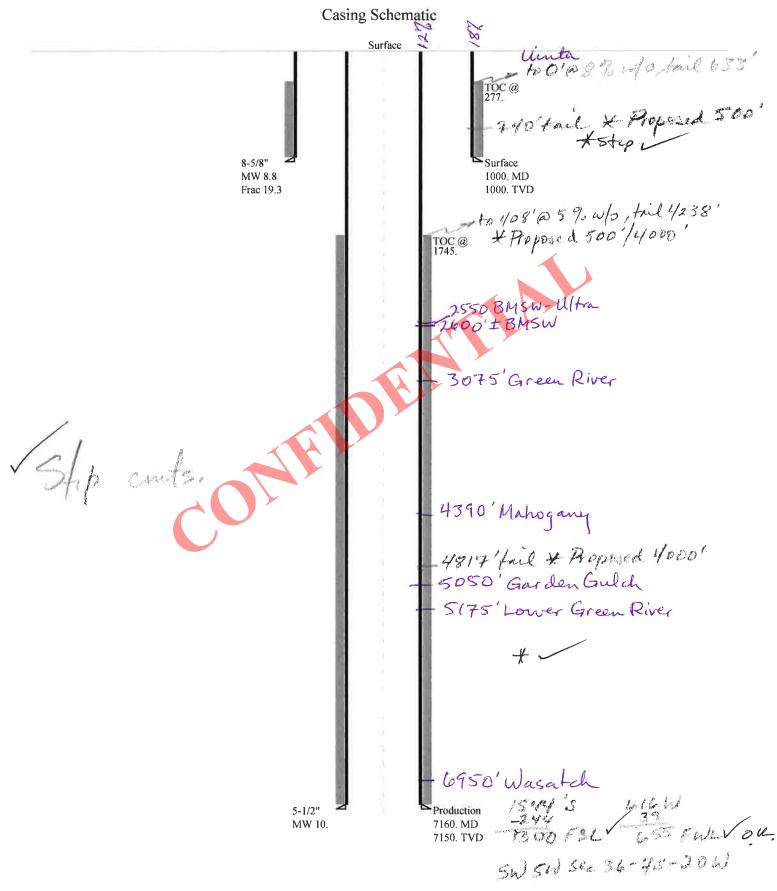
Thanks,

Jeff Conley SITLA Resource Specialist jconley@utah.gov 801-538-5157

# BOPE REVIEW ULTRA RESOURCES INC Three Rivers 36-16T-720 43047545820000

								=1
Well Name		ULTRA RESOUR	RCES INC Three F	Rivers	s 36-16T-720	430	4754582000	0
String		Surf	Prod			T.		<u>ī</u>
Casing Size(")		8.625	5.500			Ī		<u> </u>
Setting Depth (TVD)		1000	7150	Ē		Ī		
Previous Shoe Setting Dept	h (TVD)	0	1000	F		Ī		1
Max Mud Weight (ppg)		8.8	10.0	F		Ī		1
BOPE Proposed (psi)		500	3000	F		Ï		1
Casing Internal Yield (psi)		2950	5320	F		Ï		1
Operators Max Anticipated	Pressure (psi)	3650	9.8	F		Ť		-
				-		1		
Calculations  Man PMP (mai)		Surf Stri		S 4	41. * 3.4337	_	8.625	"
Max BHP (psi)		.0	052*Setting I	Эері	tn*M w =	45	8	BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing	Denth)=	33		
MASP (Gas/Mud) (psi)			P-(0.22*Sett			_		YES diverter with rotating head
Milor (Gus/Muu) (psi)		Mux Dii	1 (0.22 Bett		Deptii)-	23	8	*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	Setting Depth	- Previous Sl	10e	Depth)=	23	B i	NO OK
Required Casing/BOPE Tes					-	10		psi
*Max Pressure Allowed @		Shoe=						psi *Assumes 1psi/ft frac gradient
In the state of th	Trevious custing			_		0		por Hosamos Ipon it ride gradient
Calculations		Prod Stri	ing				5,500	"
Max BHP (psi)		.0	52*Setting I	Dept	th*MW=	37	18	
				1				BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)			P-(0.12*Sett		-	28	60	YES 3M BOP, dbl ram, annular with diverter and rotating head
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Sett	ing	Depth)=	21	45	YES OK
							*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe Max BHP22*(Setting Depth - Previous Shoe Depth)=			Depth)=	23	65	NO OK		
Required Casing/BOPE Tes						30	00	psi
*Max Pressure Allowed @ Previous Casing Shoe=				10	00	psi *Assumes 1psi/ft frac gradient		
Calculations		String		_		_		"
Max BHP (psi)		.0	52*Setting I	Dept	th*MW=	Г		
						_		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing	Depth)=			NO
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Sett	ing	Depth)=			NO
								*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth -	- Previous Sh	10e	Depth)=			NO
Required Casing/BOPE Tes	st Pressure=							psi
*Max Pressure Allowed @	Previous Casing	Shoe=						psi *Assumes 1psi/ft frac gradient
Calculations		String				_		"
Max BHP (psi)			052*Setting I	Dept	th*MW=	_	i	
* .								BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Sett	ing	Depth)=	Г	<del></del>	NO
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Sett	ing	Depth)=			NO I
								*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	setting Depth .	- Previous Sl	10e	Depth)=			NO
Required Casing/BOPE Te	st Pressure=							psi
*Max Pressure Allowed @	Previous Casing	Shoe=						psi *Assumes 1psi/ft frac gradient
					_		-	

# 43047545820000 Three Rivers 36-16T-720



43047545820000 Three Rivers 36-16T-720 Well name:

**ULTRA RESOURCES INC** Operator:

String type: Surface Project ID: 43-047-54582

**UINTAH COUNTY** Location:

**Design parameters:** Minimum design factors: **Environment:** 

**Collapse** Collapse: H2S considered? No Mud weight: 8.800 ppg Design factor 1.125 Surface temperature: 74 °F 88 °F Design is based on evacuated pipe. Bottom hole temperature:

1.40 °F/100ft Temperature gradient:

Minimum section length: 100 ft

**Burst:** 

Design factor 1.00 Cement top: 277 ft

**Burst** 

Max anticipated surface

pressure: 880 psi Internal gradient: 0.120 psi/ft Calculated BHP 1,000 psi

No backup mud specified.

Tension: 8 Round STC: 1.80 (J) 8 Round LTC: 1.70 (J)

1.60 (J) **Buttress:** Premium: 1.50 (J) Body yield: 1.50 (B)

Tension is based on buoyed weight. Neutral point: 868 ft

Non-directional string.

Re subsequent strings: Next setting depth: 7,150 ft Next mud weight: 10.000 ppg 3,714 psi Next setting BHP: Fracture mud wt: 19.250 ppg 1,000 ft Fracture depth:

Injection pressure:

1,000 psi

Run Seq	Segment Length (ft) 1000	Size (in) 8.625	Nominal Weight (lbs/ft) 24.00	<b>Grade</b> J-55	End Finish ST&C	True Vert Depth (ft) 1000	Measured Depth (ft) 1000	Drift Diameter (in) 7.972	Est. Cost (\$) 5148	
Run Seq	Collapse Load (psi) 457	Collapse Strength (psi) 1370	Collapse Design Factor 2.997	Burst Load (psi) 1000	Burst Strength (psi) 2950	Burst Design Factor 2.95	Tension Load (kips) 20.8	Tension Strength (kips) 244	Tension Design Factor 11.71 J	

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: September 24,2014 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43047545820000 Three Rivers 36-16T-720 Well name:

**ULTRA RESOURCES INC** Operator:

Production String type: Project ID: 43-047-54582

**UINTAH COUNTY** Location:

Design parameters: Minimum design factors: **Environment:** 

Collapse Collapse: H2S considered? No 74 °F Mud weight: 10.000 ppg Design factor 1.125 Surface temperature: 174 °F Design is based on evacuated pipe. Bottom hole temperature:

1.40 °F/100ft Temperature gradient:

Minimum section length: 1,000 ft

Burst:

Design factor 1.00 Cement top: 1,745 ft

**Burst** 

Max anticipated surface

2,141 psi pressure: Internal gradient: 0.220 psi/ft Calculated BHP 3,714 psi

No backup mud specified.

Directional Info - Build & Drop Tension: Kick-off point 8 Round STC: 1.80 (J) 1200 ft 1.80 (J) 8 Round LTC: Departure at shoe: 247 ft

1.60 (J) **Buttress:** Premium: 1,50 (J) Body yield: 1.60 (B)

Maximum dogleg: 2 °/100ft 0° Inclination at shoe:

Tension is based on buoyed weight. Neutral point: 6,076 ft

Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	7160	5.5	17.00	J-55	LT&C	7150	7160	4.767	27739
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
•	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	3714	4910	1.322	3714	5320	1.43	103.1	247	2.40 J

Prepared Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: September 24,2014 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7150 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

# **ON-SITE PREDRILL EVALUATION**

# Utah Division of Oil, Gas and Mining

**Operator** ULTRA RESOURCES INC **Well Name** Three Rivers 36-16T-720

API Number 43047545820000 APD No 9991 Field/Unit THREE RIVERS

Location: 1/4,1/4 NWSW Sec 36 Tw 7.0S Rng 20.0E 1544 FSL 616 FWL

GPS Coord (UTM) 617184 4446787 Surface Owner

## **Participants**

Martin Pierce (surveyor), Ben Williams (UDWR), Jeff Conley (SITLA), Dan Schaad (USFWS), Jim Burns (Ultra), Richard Powell (UDOGM)

# Regional/Local Setting & Topography

This proposed 5 oil well site sits approximately 2.5 miles south east of Pelican Lake on SITLA land being leased by the USFWS and managed as part of the Ouray Wildlife Refuge. The Green River is about .75 of a mile to the south and east. The site is generally flat with a gradual slope toward Pelican Lake to the northwest.

#### Surface Use Plan

**Current Surface Use** 

Wildlfe Habitat

New Road
Miles

Well Pad

Src Const Material

Surface Formation

0.1 Width 250 Length 440 Offsite UNTA

Y

Ancillary Facilities N

Waste Management Plan Adequate?

#### **Environmental Parameters**

Affected Floodplains and/or Wetlands N

#### Flora / Fauna

Indian rice grass and other grasses, horse brush Good antelope habitat

## Soil Type and Characteristics

Loamy sand with some gravel

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Permeable soil

## **Erosion Sedimentation Control Required?** N

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

## **Reserve Pit**

Site-Specific Factors	Site Ran	king	
Distance to Groundwater (feet)	75 to 100	10	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	High permeability	20	
Fluid Type	TDS>5000 and _	10	
<b>Drill Cuttings</b>	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	60	1 Sensitivity Level

## Characteristics / Requirements

According to Ultra representative Jim Burns a closed loop drilling mud system will be used for this well and all other wells drilled on this location. If a reserve pit is placed as indicated on the survey layout it will be in a cut stable location and due to very permeable soil and rock it will require a 20 mil liner and felt subliner.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

# Other Observations / Comments

Evaluator	Date / Time
Richard Powell	7/31/2014

# Application for Permit to Drill Statement of Basis

# Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	<b>CBM</b>
9991	43047545820000	SITLA	OW	S	No
Operator	ULTRA RESOURCES INC		Surface Owner-APD		
Wall Name	Three Divers 26 16T 720		Unit		

Well Name Three Rivers 36-16T-720 Unit

Field THREE RIVERS Type of Work DRILL

Location NWSW 36 7S 20E S 1544 FSL 616 FWL GPS Coord

(UTM) 617224E 4446604N

#### **Geologic Statement of Basis**

Ultra proposes to set 1,000 feet of surface pipe, cemented to surface. The depth to the base of the moderately saline water at this location is estimated to be at approximately 2,600 feet. A search of Division of Water Rights records shows 6 water wells within a 10,000 foot radius of the center of Section 36. Wells in the area are listed for EOR makeup water, and stock watering. Depths are listed for only 2 wells at 40 and 70 feet. Listed wells probably produce from the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to the base of the moderately saline ground water.

Brad Hill 9/18/2014
APD Evaluator Date / Time

#### **Surface Statement of Basis**

This proposed 5 oil well site is on state surface with state minerals. The land is currently leased by the USFWS and managed as part of the Ouray Wildlife Refuge. The site is placed near the top west side of a large hill or ridge with a large flat top. This ridge creates a divide between the Pelican Lake basin and the Green River flood plain. Drainage from the location is toward Pelican Lake approximately 2.5 miles to the northwest. According to Ultra representative Jim Burns all future drilling will be done with a closed loop mud system and reserve pits will no longer be used. If a reserve pit is used as indicated on survey layout it would acceptable. Due to permeable soil this location must be bermed. USFWS representative Dan Schaad stated that this well pad had been shifted west approximately 100 ft to be out of view of the river side of the Ouray wildlife refuge and expressed appreciation that Ultra had worked with him on this. SITLA representative Jeff Conley requested that Ultra Resources ensure that no vehicle or equipment disturbance takes place off the pad. UDWR representative Ben Williams stated that this is antelope habitat but stated that he would make no wildlife recommendations for this site. This appears to be a good site for placement of this well.

Richard Powell 7/31/2014

Onsite Evaluator Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit. A closed loop mud system may be used.

Surface The well site shall be bermed to prevent fluids from entering or leaving the pad.

Surface Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation

and stability issues.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.

Surface The reserve pit shall be fenced upon completion of drilling operations.



# **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 7/9/2014 API NO. ASSIGNED: 43047545820000 WELL NAME: Three Rivers 36-16T-720 **OPERATOR: ULTRA RESOURCES INC (N4045)** PHONE NUMBER: 303 645-9804 **CONTACT:** Jenna Anderson PROPOSED LOCATION: NWSW 36 070S 200E **Permit Tech Review:** 1 SURFACE: 1544 FSL 0616 FWL **Engineering Review:** BOTTOM: 1300 FSL 0660 FWL Geology Review: **COUNTY: UINTAH LATITUDE**: 40.16352 LONGITUDE: -109.62348 UTM SURF EASTINGS: 617224.00 NORTHINGS: 4446604.00 FIELD NAME: THREE RIVERS LEASE TYPE: 3 - State LEASE NUMBER: ML50510 PROPOSED PRODUCING FORMATION(S): GREEN RIVER - LOWER SURFACE OWNER: 3 - State **COALBED METHANE: NO RECEIVED AND/OR REVIEWED:** LOCATION AND SITING: ✓ PLAT R649-2-3. Bond: STATE/FEE - 022046398 Unit: **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 270-02 Water Permit: 49-2262 Effective Date: 11/9/2013 **RDCC Review:** 

Siting: 2 Wells Per 40 Acres

R649-3-11. Directional Drill

Comments: Presite Completed

Fee Surface Agreement

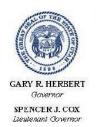
Intent to Commingle

**Commingling Approved** 

Stipulations:

5 - Statement of Basis - bhill12 - Cement Volume (3) - hmacdonald15 - Directional - dmason

25 - Surface Casing - hmacdonald



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# Permit To Drill

\*\*\*\*\*\*

Well Name: Three Rivers 36-16T-720

**API Well Number:** 43047545820000

Lease Number: ML50510 Surface Owner: STATE Approval Date: 10/2/2014

### Issued to:

ULTRA RESOURCES INC, 304 Inverness Way South #295, Englewood, CO 80112

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 270-02. The expected producing formation or pool is the GREEN RIVER - LOWER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

# **Conditions of Approval:**

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 500' MD and tail cement above Mahogany as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

# **Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

# **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  - at http://oilgas.ogm.utah.gov
  - 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
  - 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

#### **Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approveu by:

For John Rogers Associate Director, Oil & Gas Sundry Number: 66225 API Well Number: 43047545820000

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for propagast to drift we wells, significantly deepen existing wells below control to the form for propagast to drift we wells, significantly deepen existing wells below control to the form for propagast to drift we wells, significantly deepen existing wells below control to the form for propagast to drift we wells, significantly deepen existing wells below control to the form for such propagation. The form for such propagation of drift british form for propagation of the state performance of the form for such propagation. The form for such propagation of the state performance of the form for such propagation. The form form form for such propagation of the state performs the form form form for such propagation. The form form form form for such propagation for the form form form form for such propagation. The form form form form form form for such propagation for the form form form form form form form for such propagation for form form form form form form form				
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ADDRESS OF OPERATOR:  3. ADDRESS OF OPERATOR: 3. ADDRE				
116 Inverness Drive East, Suite #400 , Englewood, CO, 80112  303 645-9809 Ext THERE RYERS LOCATION OF WELL FOOTAGES AT SURFACE: 1544 FSL 00516 FWL OTROUTS, SECTION, TOWNSHIP, RANGE, MERIDIAN: CUT/QIT, NIVSW Section: 36 Township: 07.05 Range: 20.0E Meridian: S  11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  ACGUZE  ALTER CASING COMMENT UNIND ACGUZE  ACGUZE  ALTER CASING COMMENT UNIND ACGUZE  ACGUZE  ALTER CASING COMMENT UNIND COMMENT				
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Date of Work Completion:    OPERATOR CHANGE	10/17/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
OPERATOR CHANGE		DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
SPUD REPORT   Date of Spudi:   REPERFORATE CURRENT FORMATION   SIDETRACK TO REPAIR WELL   TEMPORARY ABANDON   TUBING REPAIR   VENT OR FLARE   WATER DISPOSAL   APD EXTENSION   APD EXTENSION   OTHER:   TUBING REPORT   Report Date:   WILDCAT WELL DETERMINATION   OTHER   OTHER:   TUBING REPORT   OTHER:   TUBING REPORT   SI TA STATUS EXTENSION   OTHER   OTHER:   TUBING REPORT   OTHER   OTHER:   TUBING REPORT   OTHER   OTHER:   TUBING REPORT   OTHER:   TUBING REPORT   OTHER   OTHER:   TUBING REPORT   OTHER:   TUBING REP	Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
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Ultra respectfully requests a one year extension of the state permit for the referenced well. This is the first extension that has been requested.    Approved by the Useptember 7,f2015 oil, Gas and Mining	12 DESCRIBE BROROSED OR		Il portinent details including dates	donthe volumes etc
NAME (PLEASE PRINT) Jenna Anderson 303 645-9804  PHONE NUMBER Permitting Assistant SIGNATURE  DATE	Ultra respectfully re	equests a one year extension	of the state permit for	Approved by the Usehteinbern 7,f2015
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Sundry Number: 66225 API Well Number: 43047545820000



# The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

## Request for Permit Extension Validation Well Number 43047545820000

API: 43047545820000

Well Name: Three Rivers 36-16T-720

Location: 1544 FSL 0616 FWL QTR NWSW SEC 36 TWNP 070S RNG 200E MER S

Company Permit Issued to: ULTRA RESOURCES INC

Date Original Permit Issued: 10/2/2014

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well?  Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ( Yes ( No
• Has the approved source of water for drilling changed?   Yes  No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?   Yes  No
• Is bonding still in place, which covers this proposed well?   Yes   No
nature: Jenna Anderson Date: 9/17/2015

**Signature:** Jenna Anderson **Date:** 9/17/2015

Title: Permitting Assistant Representing: ULTRA RESOURCES INC



# State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining JOHN R. BAZA

Division Director

December 3, 2015

Ultra Resources, Inc. 304 Inverness Way South # 295 Englewood, CO 80112

Re:

<u>APD Rescinded – Three Rivers 36-16T-720, Sec. 36, T. 7S, R. 20E</u>

Uintah County, Utah API No. 43-047-54582

#### Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on October 2, 2014. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective December 3, 2015.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

**Environmental Scientist** 

cc:

Well File

SITLA, Ed Bonner

